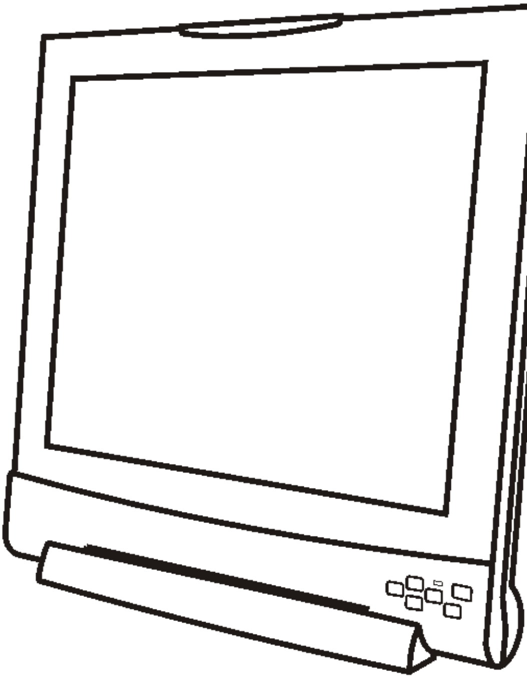

S-17/18/19 SXGA TFT LCD Monitor

User Manual

AG neovo

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Notes Before Use

Installation

- Do not cover or block the vent at the back of the LCD panel.
- Keep LCD panel away from direct sunlight or heat source, e.g., electrical heater or radiator. Avoid dust, mechanical vibration or shock.

Connecting to Power

- Use correct type of power cord according to local specifications.
- Connect to a source near your LCD panel.
- Do not put objects on top of the power cord.
- Disconnect the power cord from the source when
  - ➢ you are not using the LCD panel for a long period of time;
  - ➢ the cable is damaged or worn out;
  - ➢ the LCD panel falls off or case is broken; or
  - ➢ Send your LCD panel for service when the performance is extensively reduced.

Maintenance

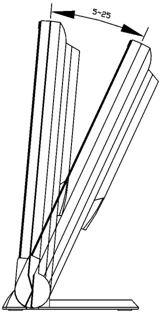
- Clean the frame, screen and control buttons of your LCD panel with a soft cloth dampened with a small quantity of mild detergent. Do not use any volatile substance or solvent such as alcohol or benzene to clean your LCD panel.Do not rub, touch or hit screen surface with sharp or abrasive objects (e.g., pencil or screwdriver) to avoid scratches on screen surface.
- Do not let objects or liquids get into the vent at the back of the LCD panel. It may cause fire, electric shock or part damage.

Delivering Your LCD Panel

- Use the original packaging materials and the carton to pack the LDC panel before delivery.

Adjusting Your LCD Panel Viewing Angle

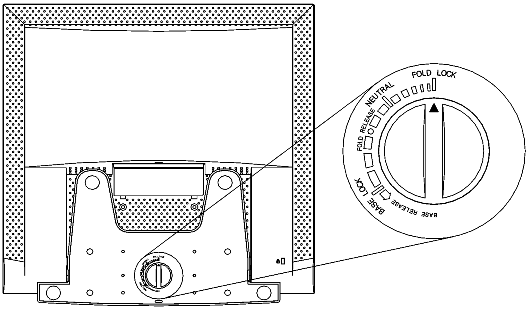
You can adjust your LCD panel between 5°~25° by holding the top of the panel with both hands and pushing back and forth to adjust your desirable viewing angle.



Base Lock

If you want to mount your LCD panel on the wall or save space for transportation, you can fold the base up and lock it with the patent pending base lock.

The unique design of this handy and magic mechanism consists of three sections: base lock, neutral and fold lock.



1. Base Lock—for long distance transportation, you can fold up the base and turn the lock to base position to prevent the base from unfolding.
2. Neutral—you may fold and unfold the base anytime when the lock is at the neutral position.
3. Fold Lock—when you are adjusting the view angle, set the lock to this position to avoid extending the panel to greater than 25°.

When you open the carton of your LCD panel, the default position of the lock is at Base Lock. If you want to release the base, turn the lock counterclockwise to Base Release position and release the lock, it will automatically switch to the Neutral position. Now you may easily unfold the base. When the angle between the panel and the base is smaller than 25°, the lock will continue to switch to Fold Lock position and stop.

The adjustable range of the panel and base is between 5°~25°, when it reaches the maximum range, the lock will automatically lock the base up to prevent damage of either the panel or the base.

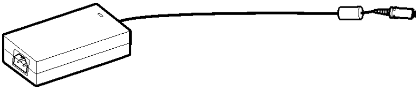
If you want to fold up the base again, you will need to turn counterclockwise and hold the lock (when the angle is already at 25°, the lock will be stuck, and you will need to readjust the angle to smaller than 25° before you can turn the lock), then push the panel until the base folds up to the panel. Lastly, don't forget to turn the lock counterclockwise to Base Lock position to secure the base.

Getting Started

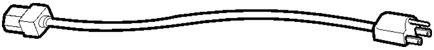
Unpacking Your LCD Panel

After you have unpacked your LCD panel, make sure that the following items are included in the package.

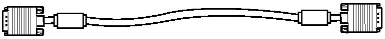
- LCD panel
- Adaptor



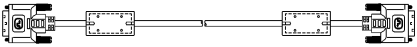
- Power cord



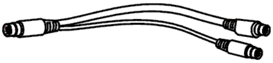
- D-sub 15-pin VGA cable (*1)



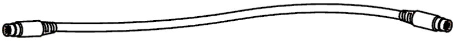
- DVI-D digital cable (*1)



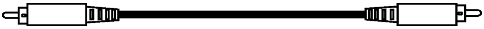
- Video cable (Mini-din 8-pin to S-VHS and CVBS) (*1) *(Optional)*



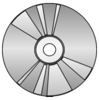
- S-VHS cable (*1) *(Optional)*



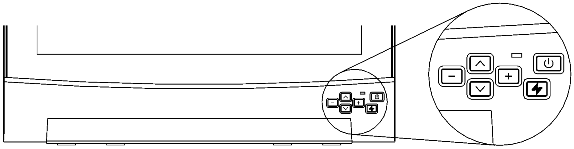
- Video CVBS cable (*1) *(Optional)*



- Floppy/CD-ROM (containing Windows information file and user's manual)



Control Buttons



Front View

⏻ **ON/OFF Button**

Push once to turn your LCD panel ON and push again to turn it OFF.

○ **Power LED**

The power LED will turn to green under normal operation and orange when in standby mode.

⚡ **Auto Adjustment**

The auto adjustment function will automatically tune your LCD panel to the optimal performance, including screen size, color, brightness and contrast.

We recommend you to use the auto adjustment function for the first time use, after resolution or frequency change.

⚡ Auto adjustment function will be disabled for Video-In (DVD, VCD or VCR).

∧ **Move UP**

Call out OSD menu.

Select OSD menu features from right to left, and bottom to top.

∨ **Move DOWN**

Call out OSD menu.

Select OSD menu features from left to right, and top to bottom.

+ **Increase**

Call out OSD menu.

Increase feature value.

− **Decrease**

Call out OSD menu.

Decrease feature value.

Installation

Connecting LCD Panel to PC (Analog)—

1. Remove all the packages from the panel.
2. Place your LCD panel in a suitable place. Make sure that there are enough space for adjustment, especially the rear of the panel.
3. Turn off your PC and connect the D-sub 15-pin VGA cable included in the package to the VGA port on your PC.
4. Connect the adaptor to the Adaptor IN socket at the back of your LCD panel.
5. Connect one end of the power cord to a source and another end to the adaptor.
6. Turn on your PC.
7. Turn on your LCD panel. If the power LED is yellow and no display on the screen, please refer to the Warning Messages and Troubleshooting Guide in the user manual.
8. Change the display resolution to 1280X1024 pixels at 60Hz from your PC, and then push the AUTO button on the panel. The panel will automatically tune to the optimal performance.

Connecting LCD Panel To A Digital Source (Digital, DVI)—

1. Turn off the PC and connect one end of the DVI-D digital cable included in the package to the DVI port at the back of the panel and another end to digital out your VGA card.
2. Repeat steps 4-8 of the previous section.

Connecting LCD Panel To A Video Source (Video)— *(Optional)*

Your LCD panel is ready for direct connection to any video signal, including VCD, DCD or VCR. You may connect the panel to any video source containing S-VHS and CVBS output.

1. Connect the video cable included in the package to the Mini-DIN 8-pin port at the back of the panel.
2. Make sure the kind of output signal available from your video source, then select the correct type of signal cable for connection between the source and the video cable included in the package.
   (The included video cable contains only S-VHS connector. If your video source has only CVBS output, you will need to purchase a CVBS cable.)
3. Turn on your LCD panel.
4. Turn on your video source.

Adjusting Your LCD Panel

In the OSD menu, you will find all kinds of features to help you adjust your LCD panel to the optimal performance.

Important! Though manual adjustment of the LCD panel is available, we strongly recommend you to use the auto adjustment function of the panel. It will automatically tune your LCD panel to the optimal performance. Simply push the AUTO button to enable the auto adjustment function. Additionally, we recommend you to use the auto adjustment function every time after you have change the resolution or frequency of your display.

Selecting OSD Features

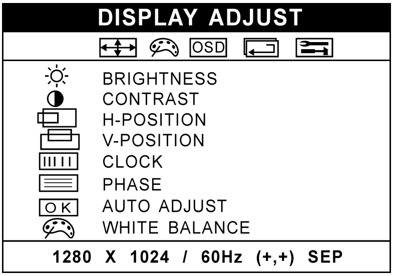
1. Push ⌃, ⌄, ⊞ or ⊟ button to call out the OSD window.
   The five OSD menus are represented by the following icons from left to right in the OSD window.

✥	DISPLAY ADJUST
🎨	COLOR TEMPERATURE
OSD	OSD ADJUST
↵	INPUT SELECT
🔧	MISC ADJUST

2. Push ⌃ or ⌄ to move the highlight bar to the desired menu, and hold the button until the features of the menu display on the window.
3. Then push ⊞ or ⊟ to open the menu.
4. Push ⌃ or ⌄ button to select a feature.
5. Then push ⊞ or ⊟ button to adjust the value of feature.
6. Push ⌃ or ⌄ button to call out new features.
7. Push AUTO to save changes and go back to main menu.
8. Then push AUTO again to exit OSD.

OSD Menus

Display Adjust

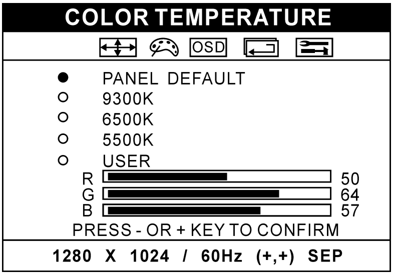


DISPLAY ADJUST

BRIGHTNESS
CONTRAST
H-POSITION
V-POSITION
CLOCK
PHASE
AUTO ADJUST
WHITE BALANCE

1280 X 1024 / 60Hz (+,+) SEP

Color Temperature

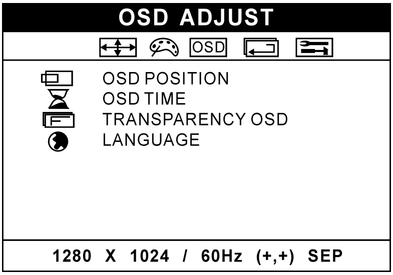


COLOR TEMPERATURE

● PANEL DEFAULT
○ 9300K
○ 6500K
○ 5500K
○ USER
R 50
G 64
B 57
PRESS - OR + KEY TO CONFIRM

1280 X 1024 / 60Hz (+,+) SEP

OSD Adjust

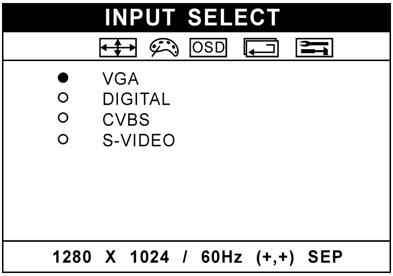


OSD ADJUST

OSD POSITION
OSD TIME
TRANSPARENCY OSD
LANGUAGE

1280 X 1024 / 60Hz (+,+) SEP

Input Select

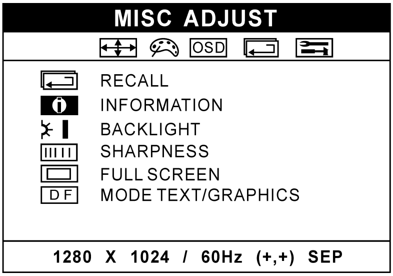


INPUT SELECT

● VGA
○ DIGITAL
○ CVBS
○ S-VIDEO

1280 X 1024 / 60Hz (+,+) SEP

Misc Adjust



1280 X 1024 / 60Hz (+,+) SEP

Brightness & Contrast

1. Select Brightness and Contrast in the Display Adjust menu.
2. Push ⊞ and ⊟ button to adjust value between 0 and 100, reading will display at the bottom of the OSD window.
3. Push AUTO to save changes and go back to the main menu.

Horizontal & Vertical Position

1. Select H-position and V-position in the Display Adjust menu.
2. Push ⊞ and ⊟ button to adjust value between 0 and 100, reading will display at the bottom of the OSD window.
3. Push AUTO to save changes and go back to the main menu.

Clock & Phase

1. Select Clock and Phase in the Display Adjust menu to modify the distortion of video signal.
2. Push ⊞ and⊟ button to adjust value between 0 and 100, reading will display at the bottom of the OSD window.
3. Push AUTO to save changes and go back to the main menu.

Auto Adjust

1. Push Auto Adjust in the Display Adjust Menu to enable the auto adjustment function.
2. Push ⊞ and ⊟ button to switch from YES and NO.
3. Push AUTO to save changes and go back to the main menu.

White Balance

1. Select White Balance in the Display Adjust menu.
2. Push ⊞ and ⊟ button to switch from YES and NO.
3. Push AUTO to save changes and go back to the main menu.

Selecting Color Temperature

We recommend you to select different color temperature options for different purposes as shown below.

Option	Purpose
9300K	General
6500K	Color Management
5500K	Photo Editing

1. Select an option from the menu.
2. Push AUTO to save changes and go back to the main menu.

Using User Defined Color Temperature

You may select USER feature to adjust color temperature according your preferences or special purposes.

1. Select a color from the menu.
2. Push ⊞ and ⊟ button to adjust value between 0 and 100.
3. Push AUTO to save changes and go back to the main menu.

OSD Position

1. Select OSD Position in the OSD Adjust menu to adjust OSD window position according to your preference.
2. Push ⊞ or ⊟ button to move OSD window to a desired position (there are 9 built-in options).
3. Push AUTO to save changes and go back to the main menu.

OSD Time

1. Select OSD Time in the OSD Adjust menu to adjust OSD window display time.
2. Push ⊞ or ⊟ button to adjust, the options are Off 10, 20, 30, 40, 50 60 seconds. Push AUTO to save changes and go back to the main menu.

Transparency OSD

1. Select Transparency OSD in the OSD Adjust menu to adjust the transparency of OSD window.
2. Push ⊞ and ⊟ button to adjust value between 0 and 100.
3. Push AUTO to save changes and go back to the main menu.

Selecting a Language

1. Select Language in the OSD Adjust menu to choose a desired language of the OSD.
2. Push ⊞ and ⊟ button to select, options are displayed at the bottom of the OSD window.
3. Push AUTO to save changes and go back to the main menu.

Input Select

Your LCD panel is equipped with an input signal auto detection function. It will record the last input signal and automatically detect that input signal at the beginning of next use. The sequence of input signal detection is VGA→Digital→S-Video→CVBS.

Recall

1. Select Recall to reset all features to default settings.
2. Push ⊞ and ⊟ button to switch from YES and NO.
3. Push AUTO to save changes and go back to the main menu.

Information

Select Information to display the model number of your LCD panel.

Backlight

1. Select Backlight to adjust brightness of backlight.
2. Push ⊞ and ⊟ button to adjust value between 0 and 100.
3. Push AUTO to save changes and go back to the main menu.

Sharpness

1. Select Sharpness to adjust sharpness of display.
2. Push ⊞ and ⊟ button to adjust Softer-Sharper.
3. Push AUTO to save changes and go back to the main menu.

Fullscreen

Select “Off” to display 1:1 1024 x 768 picture if input resolution is 1024 x 768; select “1” to display H-position picture full screen; select “2” to display V-position picture full screen

Mode Text/Graphic

1. If you want to choose sharpest automatic display, set Mode Text/Graphic.
2. Push ⊞ and ⊟ button to switch from TEXT or GRAPHIC mode.
3. Push AUTO to save changes and go back to the main menu.

Attention! For optimal performance of your LCD panel, set mode to TEXT when the resolution is 720x400 pixels and to GRAPHIC when the resolution is at 640x350 pixels.

Warning Messages and Troubleshooting

Warning Messages

When a warning message appears on the screen, check the following items to locate the problems of your LCD panel.	
NO SIGNAL INPUT	When no input signal is detected from any input ports. • Check if your PC or video source is ON. • Check if the signal cable is correctly connected. • Check if any pin inside the connector is twisted or broken.
NO VIDEO SIGNAL FROM ANALOG INPUT	No signal is detected from ANALOG port. • Check if your PC is ON. • Check if the D-Sub 15-pin cable is correctly connected to the ANALOG port at the back of your LCD panel. • Check if the D-Sub 15-pin cable is correctly connected to your PC. • Check if any pin inside the D-Sub 15-pin cable connector is twisted or broken.
NO VIDEO SIGNAL FROM DIGITAL INPUT	No signal is detected from DIGITAL port. • Check if your PC is ON. • Check if the DVI cable is correctly connected to the DIGITAL port at the back of your LCD panel. • Check if the DVI cable is correctly connected to your PC. • Check if any pin inside the DVI cable is twisted or broken.
NO VIDEO SIGNAL FROM S-VIDEO-IN	No signal is detected from the S-VIDEO port. • Check if your video source is ON. • Check if the S-Video cable is correctly connected to the S-Video port at the back of your LCD panel. • Check if the S-Video cable is correctly connected to your video source. • Check if any pin inside the S-Video cable is twisted or broken.
NO VIDEO SIGNAL FROM CVBS INPUT	No signal is detected from the CVBS port. • Check if your video source is ON. • Check if the CVBS cable is correctly connected to the CVBS port at the back of your LCD panel. • Check if the CVBS cable is correctly connected to your video source.

Troubleshooting Guide

Symptoms	Check
• No display • Power LED is off.	• Check if the power of your LCD panel is ON. • Check if the adaptor is correctly connected to your LCD panel. • Check if the power cord is correctly connected to the adaptor. • Check if the power cord is correctly connected to a source. • Check if the source works normally. Use another device to check for power supply.
• No display • Power LED is orange	• Check if your PC is in standby mode (move the mouse or push any key will wake up your PC). • Check if your PC or video source is ON. • Check if the signal cable is correctly connected.
• Blurred Text Display	• Check if the resolution is set at 1280x1024. • Push button to enable auto adjust. • Adjust Clock and Phase in the OSD Display Adjust menu. (See Adjusting Your LCD Panel section of this manual for details.) • Adjust Sharpness from the OSD menu if the resolution is not at 1280x1024. (See Adjusting Your LCD Panel section of this manual for details.)
• No center screen. • Missing lines.	• Push button to enable auto adjust. • Adjust H-Position and V-Position. (See Adjusting Your LCD Panel section of this manual for details.)
• Red, green, blue or black spots on the screen.	• There are millions of micro transistors on a TFT LCD panel. Each damaged transistors will lose a red, green or blue spot. We accept a very small quantity of damaged transistors during the manufacturing process. The globally accepted tolerance is 3 spots.

Specification

		17”	18”
Panel	Size	17.0" (431.8mm) diagonal	18.1” (459.7mm) diagonal
	Resolution (max.)	1280 x 1024	1280 x 1024
Input Signal	Frequency	Horizontal: 30kHz - 80kHz Vertical: 50Hz - 75Hz	Horizontal: 30kHz - 80kHz Vertical: 50Hz - 75Hz
	Pixel Clock (max.)	135MHz	135MHz
Connector	Power Supply	3-Pin AC Plug	3-Pin AC Plug
Swivel Range	Adjustable	5° - 25°	5° - 25°
Weight	Net	7.5Kg (16.5 lb)	8.0Kg (17.6 lb)
Power	AC	100 ~ 240V, 50~60Hz	100 ~ 240V, 50~60Hz
	Consumption	< 50W (ON) < 5W (Standby) < 5W (OFF)	< 50W (ON) < 5W (Standby) < 5W (OFF)

		19”	
Panel	Size	19’’ (480 mm) diagonal	
	Resolution (max.)	1280 x 1024	
Input Signal	Frequency	Horizontal: 30kHz – 80kHz, Vertical: 50Hz - 75Hz	
	Pixel Clock (max.)	135 MHz	
Connector	Power Supply	3-Pin AC Plug	
Swivel Range	Adjustable	5° - 25°	
Weight	Net	8.2 Kg (18.0 lb)	
Power	AC	100 ~ 240V, 50 ~ 60 Hz	
	Consumption	< 50W (ON) < 5W (Standby) < 5W (OFF)	

***The above specifications are subject to change without notice.**

CANADA

This FCC Class-B compliant digital device complies with the Interference-Causing Equipment Regulations of Canada.

FCC Declaimers

This device complies with Section 15 of the FCC listing. The operation procedures must meet the following conditions: (1) this device must not cause any damaging interference; and (2) this device must accept any received interference, including any unpredictable interference that may possibly occur.

Dear users,

This device has passed the Class B digital device regulations and complies with Section 15 of the FCC listing which are intended to provide reasonable warranty against damaging interference for home use. This device will produce, use and emit radio frequency energy; therefore, installation or use without following instructions given will cause possible damaging interference from radio communication. Nonetheless, it will not guarantee that interference may occur from specific installations. If this device has caused damaging interference to radio or TV signals (simply turn the device on and off to check if such interference is caused by the device), we recommend you to fix the interference with the following methods:

- Readjust the direction or location of antenna.
- Enlarge the distance between this device and the receiver.
- Use a different source other than the source that used by the receiver.
- Consult your local dealer or senior radio/TV technicians.

Careful: Changes or modifications of device without permission from authorized dealers may void the warranty of this device.

TCO'95

Congratulations!

You have just purchased a TCO'95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during the manufacturing. Since it has not been possible for the majority of electronics equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.), it is vital to conserve energy. Electronics equipment in offices consume an enormous amount of energy since they are often left running continuously.

What does labeling involve?

This product meets the requirements for the TCO'95 scheme that provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern restrictions on the presence and use of heavy metals, brominated and chlorinated flame-retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

On the back page of this folder, you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development Unit
S-114 94 Stockholm, Sweden
Fax: +46 8 782 92 07
Email (Internet): development@tco.se

Current information regarding TCO'95 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

TCO’95 is a co-operative project between TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

Environmental requirements

Brominated flame retardants

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. There are related to another group of environmental toxins, PCBs which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bio-accumulative processes. Flame-retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. TCO’95 requirement permits the inclusion of lead since no replacement has yet been developed.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury1**

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses. TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma).

The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

**Bio-accumulative is defined as substances which accumulate within living organisms*

***Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.*